

CLAIMS

What is claimed is:

- 1 1. A method for organizing data pertaining to audiovisual content, the
2 method comprising:
3 defining at least one descriptive list for a descriptive portion of the
4 data pertaining to audiovisual content;
5 defining at least one accessing list for an accessing portion of the
6 data pertaining to audiovisual content; and
7 generating a matrix that connects the at least one accessing list to the
8 at least one descriptive list.
- 1 2. The method of claim 1 wherein the data pertaining to audiovisual
2 content includes a plurality of descriptions of the audiovisual content.
- 1 3. The method of claim 1 further comprising utilizing the matrix to
2 locate a data item within the data pertaining to audiovisual content.
- 1 4. The method of claim 1 wherein each entry in the at least one
2 descriptive list is unique.
- 1 5. The method of claim 1 wherein each entry in the at least one
2 accessing list is unique.

1 6. The method of claim 1 further comprising ordering the at least one
2 descriptive list according to a particular sequence.

1 7. The method of claim 1 further comprising utilizing a usage bit for
2 each data item within the data pertaining to audiovisual content to indicate
3 whether the data item belongs to the descriptive portion or to the accessing
4 portion.

1 8. The method of claim 1 wherein generating the matrix further
2 comprises:
3 creating a plurality of rows in the matrix, the plurality of rows
4 corresponding to entries in the at least one descriptive list;
5 creating a plurality of columns in the matrix, the plurality of
6 columns corresponding to entries in the at least one accessing list; and
7 building the matrix in one pass.

1 9. The method of claim 8 wherein building the matrix in one pass
2 includes building each of the plurality of columns by indicating, for every
3 entry in the at least one descriptive list, whether said entry is referred to in
4 a corresponding accessing entry.

1 10. The method of claim 8 wherein building the matrix in one pass
2 includes building each of the plurality of rows by indicating, for every

3 entry in the at least one accessing list, whether said entry points a
4 corresponding descriptive entry.

1 11. The method of claim 1 wherein the at least one descriptive list
2 contains a plurality of descriptive lists and the at least one accessing list
3 contains a plurality of accessing lists.

1 12. The method of claim 11 further comprising:
2 amalgamating the plurality of description lists and the plurality of
3 accessing lists into a collection; and
4 building the matrix for the collection in one pass.

1 13. The method of claim 11 further comprising:
2 defining a descriptive hierarchical structure for the plurality of
3 descriptive lists;
4 defining an accessing hierarchical structure for the plurality of
5 accessing lists; and
6 generating a set of matrixes to connect the plurality of accessing lists
7 to the plurality of descriptive lists based upon the descriptive hierarchical
8 structure and the accessing hierarchical structure.

1 14. The method of claim 13 further comprising:

- 2 storing a rank identifier for each data item within the data
3 pertaining to audiovisual content; and
4 utilizing the rank identifier when generating the set of matrixes.
- 1 15. A system for organizing data pertaining to audiovisual content, the
2 system comprising:
3 means for defining at least one descriptive list for a descriptive
4 portion of the data pertaining to audiovisual content;
5 means for defining at least one accessing list for an accessing portion
6 of the data pertaining to audiovisual content; and
7 means for generating a matrix that connects the at least one
8 accessing list to the at least one descriptive list.
- 1 16. A computer readable medium comprising instructions, which when
2 executed on a processor, perform a method for organizing data pertaining
3 to audiovisual content, the method comprising:
4 defining at least one descriptive list for a descriptive portion of the
5 data pertaining to audiovisual content;
6 defining at least one accessing list for an accessing portion of the
7 data pertaining to audiovisual content; and
8 generating a matrix that connects the at least one accessing list to the at
9 least one descriptive list.

1 17. An apparatus for organizing data pertaining to audiovisual content,
2 the apparatus comprising:
3 a data repository to store the data pertaining to audiovisual content,
4 the data pertaining to audiovisual content including a
5 descriptive portion and an accessing portion; and
6 an organizing module to generate a matrix that connects the
7 accessing portion to the descriptive portion.

1 18. The apparatus of claim 17 wherein the data pertaining to
2 audiovisual content includes a plurality of descriptions of the audiovisual
3 content.

1 19. The apparatus of claim 17 further comprising a search module to
2 utilize the matrix to locate a data item within the data pertaining to
3 audiovisual content.

1 20. The apparatus of claim 17 wherein each entry in the at least one
2 descriptive list is unique.

1 21. The apparatus of claim 17 wherein each entry in the at least one
2 accessing list is unique.

1 22. The apparatus of claim 17 wherein the organizing module is capable
2 of ordering the at least one descriptive list according to a particular
3 sequence.

1 23. The apparatus of claim 17 wherein the organizing module is capable
2 of utilizing a usage bit for each data item within the data pertaining to
3 audiovisual content to indicate whether the data item belongs to the
4 descriptive portion or to the accessing portion.

1 24. The apparatus of claim 17 wherein the organizing module is capable
2 of generating the matrix by
3 creating a plurality of rows in the matrix, the plurality of
4 rows corresponding to entries in the at least one descriptive list,
5 creating a plurality of columns in the matrix, the plurality of
6 columns corresponding to entries in the at least one accessing list,
7 and
8 building the matrix in one pass.


1 25. The apparatus of claim 24 wherein the organizing module is capable
2 of building the matrix in one pass by indicating, for every entry in the at
3 least one descriptive list, whether said entry is referred to in a
4 corresponding accessing entry.

1 26. The apparatus of claim 24 wherein the organizing module is capable
2 of building the matrix in one pass by indicating, for every entry in the at
3 least one accessing list, whether said entry points a corresponding
4 descriptive entry.

1 27. The apparatus of claim 17 wherein the at least one descriptive list
2 contains a plurality of descriptive lists and the at least one accessing list
3 contains a plurality of accessing lists.

1 28. The apparatus of claim 24 wherein the organizing module is capable
2 of amalgamating the plurality of description lists and the
3 plurality of accessing lists into a collection, and
4 building the matrix for the collection in one pass.

1 29. The apparatus of claim 27 wherein the organizing module is capable
2 of
3 defining a descriptive hierarchical structure for the plurality
4 of descriptive lists,
5 defining an accessing hierarchical structure for the plurality
6 of accessing lists, and
7 generating a set of matrixes to connect the plurality of
8 accessing lists to the plurality of descriptive lists based upon the



9 descriptive hierarchical structure and the accessing hierarchical
10 structure.

1 30. The apparatus of claim 29 wherein the organizing module is capable
2 of
3 storing a rank identifier for each data item within the data
4 pertaining to audiovisual content, and
5 utilizing the rank identifier when generating the set of
6 matrixes.